



According to Regulation (CE) n°1907/2006

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	EINECS #	Classification	Weight ratio %
Glycerol	56-81-5	200-289-5	N/A	1 – 10%
Tris (tris hydroxy amino methane)	77-86-1	201-064-4	Skin Irrit. 2 – H315, Eye Irrit. 2 – H319	< 1 %

### 4. FIRST AID MEASURES

#### 4.1 Description of the first aid measure

- Eye contact** Rinse immediately and as long as possible with plenty of water (for at least 10 minutes). Eyelids should be held away from the eyeball to ensure thorough rinsing. Immediately summon eye specialist.
- Skin contact** Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Summon doctor.
- Inhalation** In case of inhalation place the person in fresh air – Summon doctor
- Ingestion** Only when conscious, rinse mouth with water, do not induce vomiting. Summon doctor.
- General advice** In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.2 Most important symptoms and effects both acute and delayed

Symptoms of exposure may include nausea, vomiting, eye irritation, skin irritation.

#### 4.3 Indication of immediate medical attention and special treatment needed

No data available

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

- Extinguishing agents** Water, fire extinguishing powder, carbon dioxide or foam.
- Non-suitable extinguishing agents** None

#### 5.2 Special hazards arising from substance of mixture

Hazardous decomposition products formed under fire conditions. - COx ; NOx ; HCl

#### 5.3 Advice for firefighters

- Protective equipment** Wear self contained breathing apparatus for fire fighting if necessary
- Other information** Use water spray to cool unopened containers

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes and clothing. Do not breathe vapours; aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedure.

### 6.2 Environmental precautions

Isolate spill area. Do not allow entering drains or watercourses.

### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** Contain spill material. Absorb the material with e.g. tissues or other liquid-absorbent material (eg Chemizorb®) place in a container in conformity with local regulations and subsequently, dispose properly and clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment, see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Safe handling advice** Avoid contact with skin, eyes and clothing. Wash hands and/or face before taking a break or leaving work.

### 7.2 Conditions for safe storage including any incompatibilities

**Conditions for safe storage** Follow information on labelling and/or user manual.

**Requirements for storage** Keep closed. Shelter from light. Store at a temperature below -15°C.

### 7.3 Other information Specific end use(s)

Do not eat, drink or smoke in application area. Keep working clothes separately and do not take them home.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

**Sodium azide**

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Basis	Value	Threshold value	Comment
FVL	Short term limit value	0.3 mg/m <sup>3</sup>	Occupational exposure values in France
	Mean exposition limit value (TWA)	0.1 mg/m <sup>3</sup>	

**Glycerol**

Basis	Value	Threshold value	Comment
FVL	Mean exposition limit value (TWA)	10.0 mg/m <sup>3</sup>	Occupational exposure values in France

**8.2 Exposure control**

**8.2.1 Appropriate engineering controls :**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**8.2.2 Individual protection measures**

**Technical measures**

No specific recommendations.

**Personal protection:**

**Respiratory**

No specific recommendations

**Eye**

Wear suitable eye/face protection.

**Hand**

Wear suitable gloves (nitrile rubber)

**Skin and body**

Wear suitable protective clothing

**8.2.3 Environment exposure controls**

No data available

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Solution
<b>Colour</b>	colourless or pinkish
<b>Odour</b>	Odourless
<b>Boiling point/boiling range</b>	Not determined
<b>Flash point</b>	N/A

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<b>Flammability</b>	N/A
<b>Explosive properties</b>	Not determined
<b>Vapour pressure</b>	Not determined
<b>Density</b>	Not determined
<b>Relative density air=1</b>	Not determined
<b>Solubility in water</b>	Soluble
<b>pH</b>	8
<b>Viscosity</b>	Not determined
<b>Oxidising properties</b>	Not determined
<b>Conductivity</b>	Not determined

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Data not available

**10.2 Chemical stability**

Stable under recommended storage and handling conditions

**10.3 Possibility of hazard reaction**

Data not available

**10.4 Conditions to avoid**

Contact with acids liberates very toxic gas. Heating.

**10.5 Incompatible material**

Strong oxidizing agents; strong bases and acids; acid chloride

**10.6 Hazardous decomposition products**

In case of fire (see Chapter 5)

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Information about Sodium azide**

- **Acute toxicity oral**

LD50 rat

Dose : 27 mg/kg

- **Acute inhalation toxicity**

CL50 rat

Dose : 27 mg/kg

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Symptoms : irritation of mucosal membranes in mouth, throat, respiratory insufficiency

- **Acute skin toxicity**

LD50 rabbit  
Dose : 20 mg/kg

- **Skin irritation**

Data not available

- **Eye irritation**

Data not available

- **Sensitization**

Data not available

- **In vitro Genotoxicity**

Data not available

- **Specific target organ – single exposure**

Data not available

- **Specific target organ – repeated exposure**

Data not available

- **Aspiration hazard**

Data not available

**Information about TRIS**

- **Acute toxicity oral**

LD50 rat  
Dose : 5 900 mg/kg  
Symptoms : Vomiting, diarrhea, convulsions

**Information about glycerol**

- **Acute toxicity oral**

LD50 rat  
Dose : 12 600 mg/kg  
Symptoms : Vomiting, diarrhea

- **Acute skin toxicity**

LD50 rabbit  
Dose : > 18 700 mg/kg  
(IUCLID)

- **Skin irritation**

Rabbit  
Result : no irritation  
(IUCLID)

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- **Eye irritation**

Rabbit  
Result : no irritation  
(external SDS)

- **Sensitization**

Patch test: human  
Result : negative  
(IUCLID)

- **In vitro Genotoxicity**

Ames test  
Result : negative  
(IUCLID)

- **Specific target organ – single exposure**

Not classified as specific target organ toxicant - single exposure

- **Specific target organ – repeated exposure**

Not classified as specific target organ toxicant, repeated exposure

- **Aspiration hazard**

Not classified

**11.2 Other information**

**HEALTH HAZARDS:**

**CAUTION :** This product contains source materials of animal origin. These materials should be handled as though they might contain potentially infectious agents.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Information about Sodium azide**

- *Toxicity to fish*

LC50

Species : *Lepomis macrochirus*

Dose : 0.68 mg/L

Exposure time : 96 h

- *Toxicity to daphnia and other aquatic invertebrates*

EC50

Species : *Daphnia pulex*

Dose: 4.2 mg/L

Exposure time: 48 h

**Information about glycerol**

- *Toxicity to fish*

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**LC50**

Species : Carassius auratus  
Dose : > 5 000 mg/L  
Exposure time : 24 h

- *Toxicity to daphnia and other aquatic invertebrates*

**EC50**

Species : Daphnia magna  
Dose: > 10 000 mg/L  
Exposure time: 24 h  
(external SDS)

- *Toxicity to algae*

**IC5**

Species: Scenedesmus quadricauda  
Dose: > 10 000 mg/L  
Exposure time: 7 days  
(external SDS)

- *Toxicity to bacteria*

**EC5**

Species: Pseudomonas putida  
Dose: > 10 000 mg/L  
Exposure time: 16 h  
(external SDS)

**12.2 Persistence and degradability**

- *Biodegradability*

Result : readily biodegradable  
63%  
Exposure time: 14 days  
(OCDE guideline 301c)

**12.3 Bioaccumulative potential**

**Information about glycerol**

Partition Coefficient : n-octanol/water  
Log POW: - 1.76  
Bioaccumulation not expected (Log Pow 1-3)  
(external SDS)

**12.4 Mobility in soil**

Data not available

**12.5 Results of PBT and vPvB assessment**

Data not available

**12.6 Other information**

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Do not allow entering soil, drains or watercourses

### 13. DISPOSAL CONSIDERATIONS

- Product** Disposal of chemical waste in compliance with corresponding local laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies, which will advise on how to dispose this type of waste.
- Contaminated packaging** Disposal in compliance with corresponding local laws and regulations. Handle contaminated packaging in the same way as the product itself.
- Other information** If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

### 14. TRANSPORT INFORMATION

Not dangerous product according to Transport regulations

### 15. REGULATORY INFORMATION

This Safety Data Sheet conforms to Regulation (EC) n° 1907/2006 (REACH) Annexe II.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Data not available

#### 15.2 Chemical safety assessment

Data not available

### 16. OTHER INFORMATION

This information only concerns the above mentioned products and does not need to be valid if used with other product(s) or in any process. The information is correct and complete to our best present knowledge and is given in good faith, but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

For veterinary in vitro use only – for animal use only.